VETERINARY INTERCALATION

DAISY COOKSON



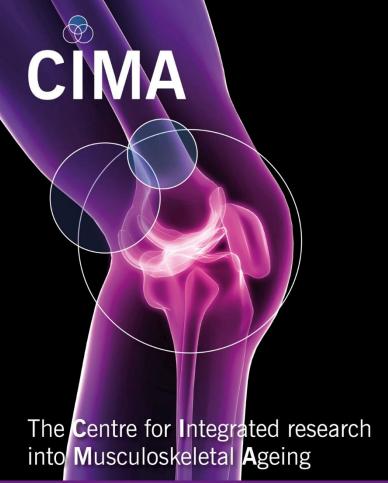
MY INTERCALATION

- 2021-2022 between 3rd and 4th year
- Masters of Research in Healthy Musculoskeletal Ageing
- First semester 3 taught modules surrounding ageing of the integrated musculoskeletal system
- Second and third semester research project





Centre for Integrated Research into Musculoskeletal Ageing







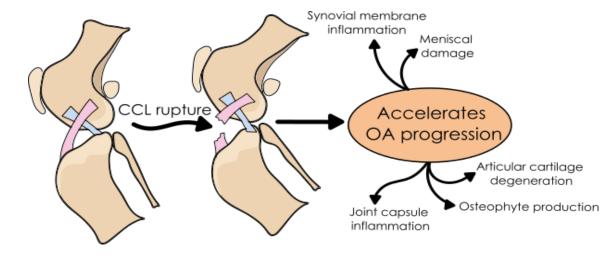




MY MRES – BACKGROUND

Cranial Cruciate Ligament (CCL)

- Cranial cruciate ligament (CCL) rupture is highly prevalent, debilitating and expensive
- Exact aetiopathogenesis of CCL degeneration is poorly understood
- No diagnostic tests capable of identifying at-risk individuals
- Treatment is often limited to 'end-stage' surgery



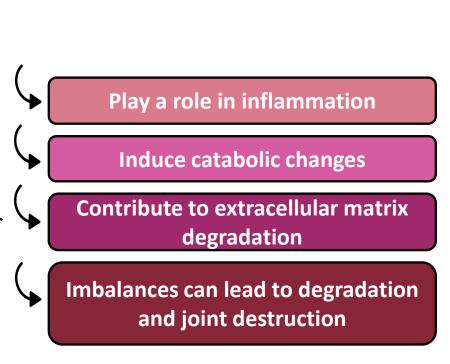


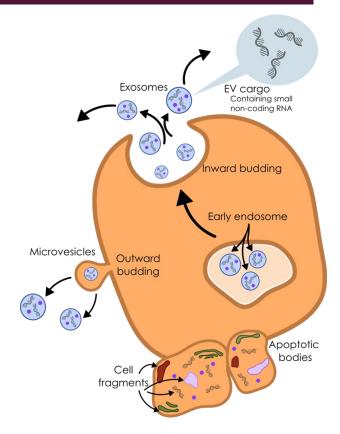


MY MRES – BACKGROUND

Extracellular Vesicles (EVs)

- Small structures secreted by cells into the extracellular space
- Key component of cellular communication
- Previous studies demonstrate their potential use in diagnosis and treatment of various disorders





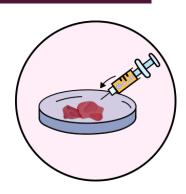
MY MRES – RESULTS

I. There were differences in the populations of EVs from healthy and diseased stifle joints

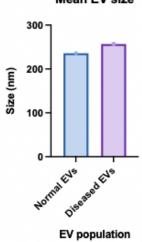


2. Diseased EVs caused a significant increase in SOX9, a marker of ligament degeneration

SOX9



Mean EV size



Could EVs and other
molecules within the synovial
fluid be used to identify at
risk individuals or as
biomarkers to indicate
disease progression?



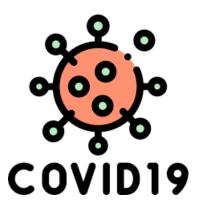
Relative expression (2^{dCi})

O.0000

Treatment of canine ligamentocytes isolated from ruptured CCLs (n=5)

Can EVs help us to understand more about CCLD, potentially providing alternative therapeutic strategies?

WHY DID I DECIDE TO INTERCALATE?



Push myself out of my comfort zone



Preventive Veterinary Medicine Volume 208, November 2022, 105741



A Dog's Dinner: Factors affecting food choice and feeding practices for UK dog owners feeding raw meat-based or conventional cooked diets ★

Genever Morgan ス , Nicola Williams, Vanessa Schmidt, Daisy Cookson, Carrie Symington, Gina Pinchbeck

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Further explore research

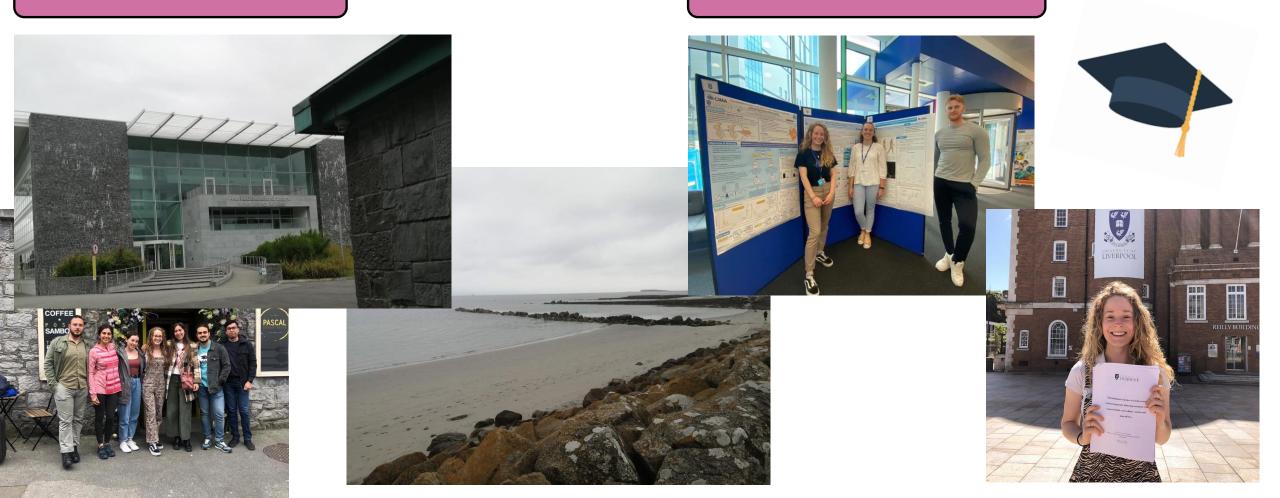


Meet new people

(and looks good on my CV!!)

LAB PLACEMENT

COMPLETING A DEGREE!

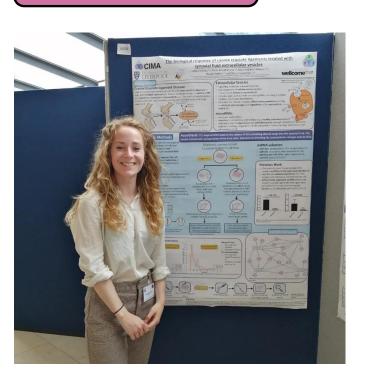


PUBLIC ENGAGEMENT

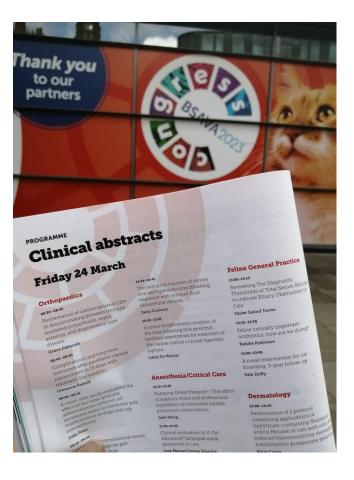




CONFERENCES







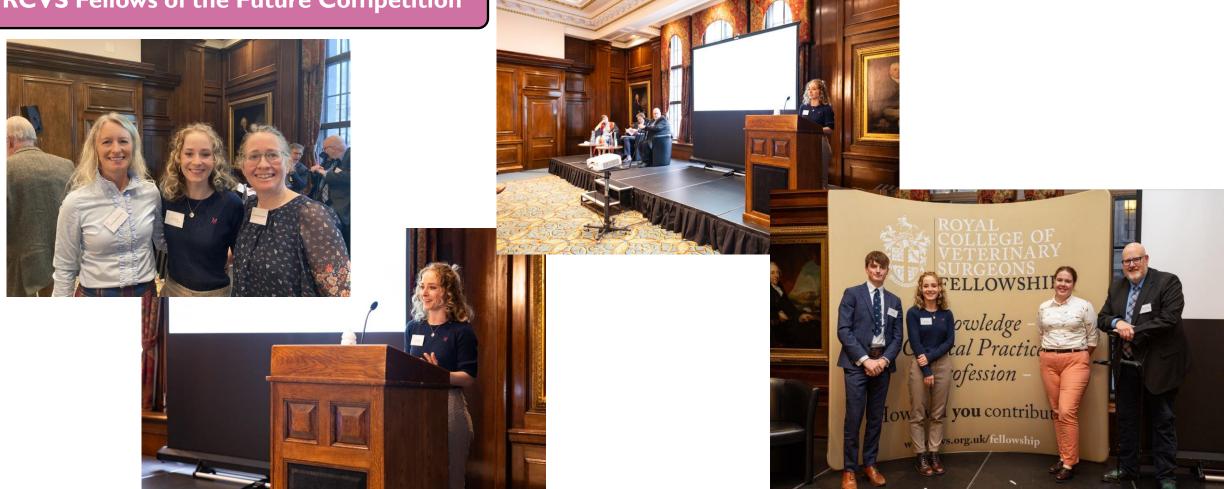
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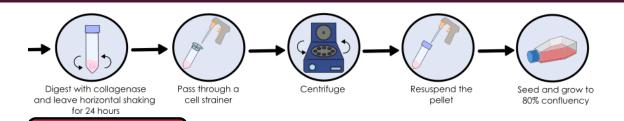




WHAT I GAINED FROM INTERCALATING







New friends



New skills



Career options



Confidence

Fantastic opportunities



WHAT'S NEXT?

- Starting work as a mixed vet in Alford, Aberdeenshire
- Continue working on Placementt, a platform that aims to streamline work experience for students, institutes and businesses
- More research???









